

Figure 3-27. Eight Parachutes Stowed

RESTRAINING ONE PARACHUTE

3-20. Restrain one cargo parachute as shown in Figure 3-28.

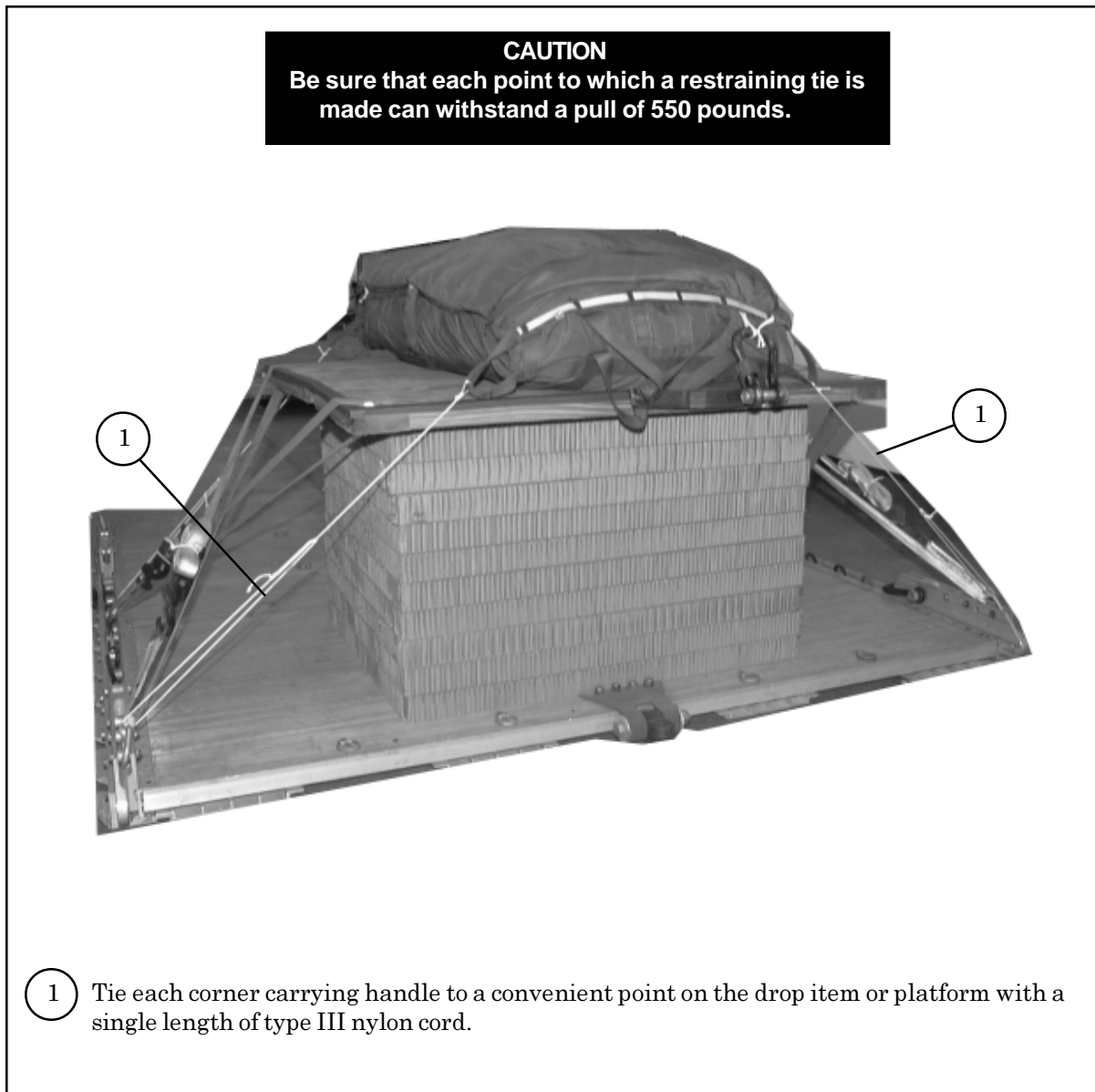


Figure 3-28. One Parachute Restrained

RESTRAINING TWO TO EIGHT PARACHUTES

3-21. The following parachute restraint systems are used to restrain two to eight cargo parachutes.

a. Two Parachutes. The restraint system for two cargo parachutes consists of one length of type VIII nylon webbing (restraint strap) and one V-knife as shown in Figures 3-29 and 3-30 or one guillotine-knife parachute release strap shown in Figures 3-31 and 3-32. Restrain two cargo parachutes as shown in Figures 3-29 through 3-36.

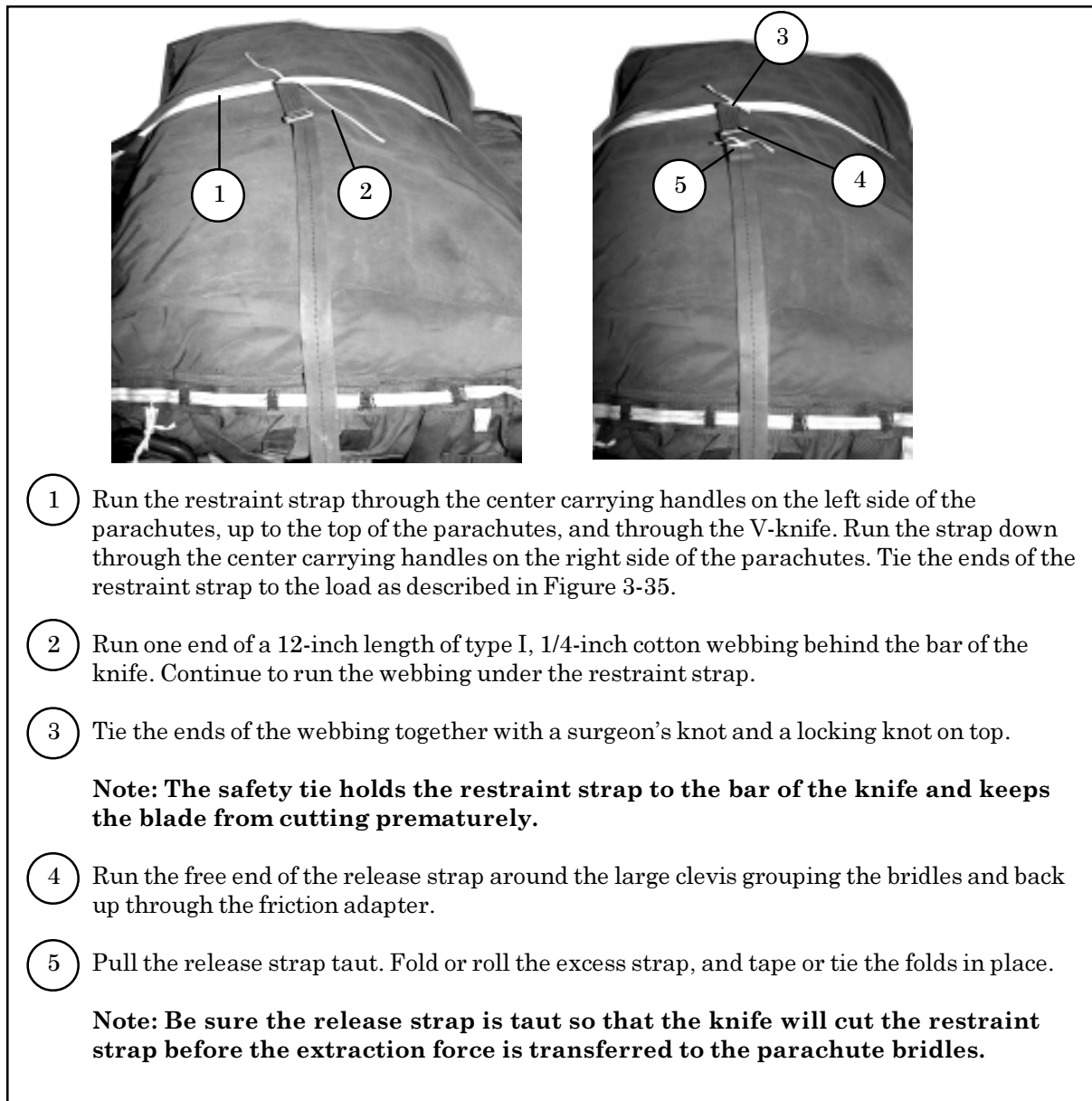
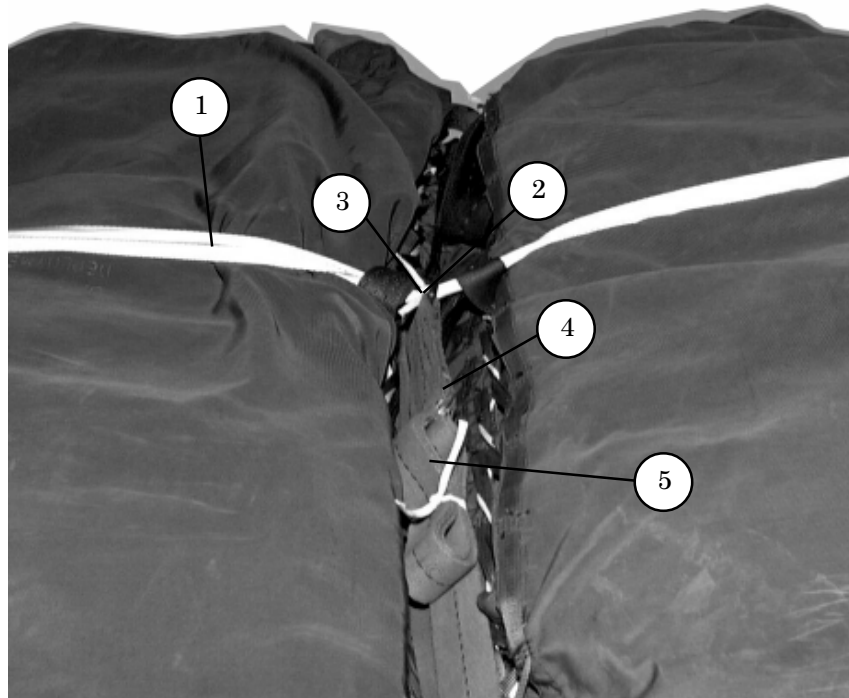


Figure 3-29. V-knife Parachute Release Strap Installed on Loads with Two Stacked Parachutes



- 1 Run the restraint strap through the center carrying handle on the left side of the parachute. Run the restraint strap over the top of the parachute, and down through the left center carrying handle and through the V-knife. Continue to run the restraint strap up through the right inside carrying handle. Run the restraint strap over the right parachute and down through the right outside carrying handle. Tie the ends of the restraint strap to the load as described in Figure 3-35.

- 2 Run one end of a 12-inch length of type I, 1/4-inch cotton webbing behind the bar of the knife. Continue to run the webbing under the restraint strap.

- 3 Tie the ends of the webbing together with a surgeon's knot and a locking knot on top.

Note: The safety tie holds the restraint strap to the bar of the knife and keeps the blade from cutting prematurely.

- 4 Run the free end of the release strap around the large clevis grouping the bridles and back up through the friction adapter.

- 5 Pull the release strap taut. Fold or roll the excess strap, and tape or tie the folds in place.

Note: Be sure the release strap is taut so that the knife will cut the restraint strap before the extraction force is transferred to the parachute bridles.

Figure 3-30. V-knife Parachute Release Strap Installed on Loads with Two Side-by-Side Parachutes

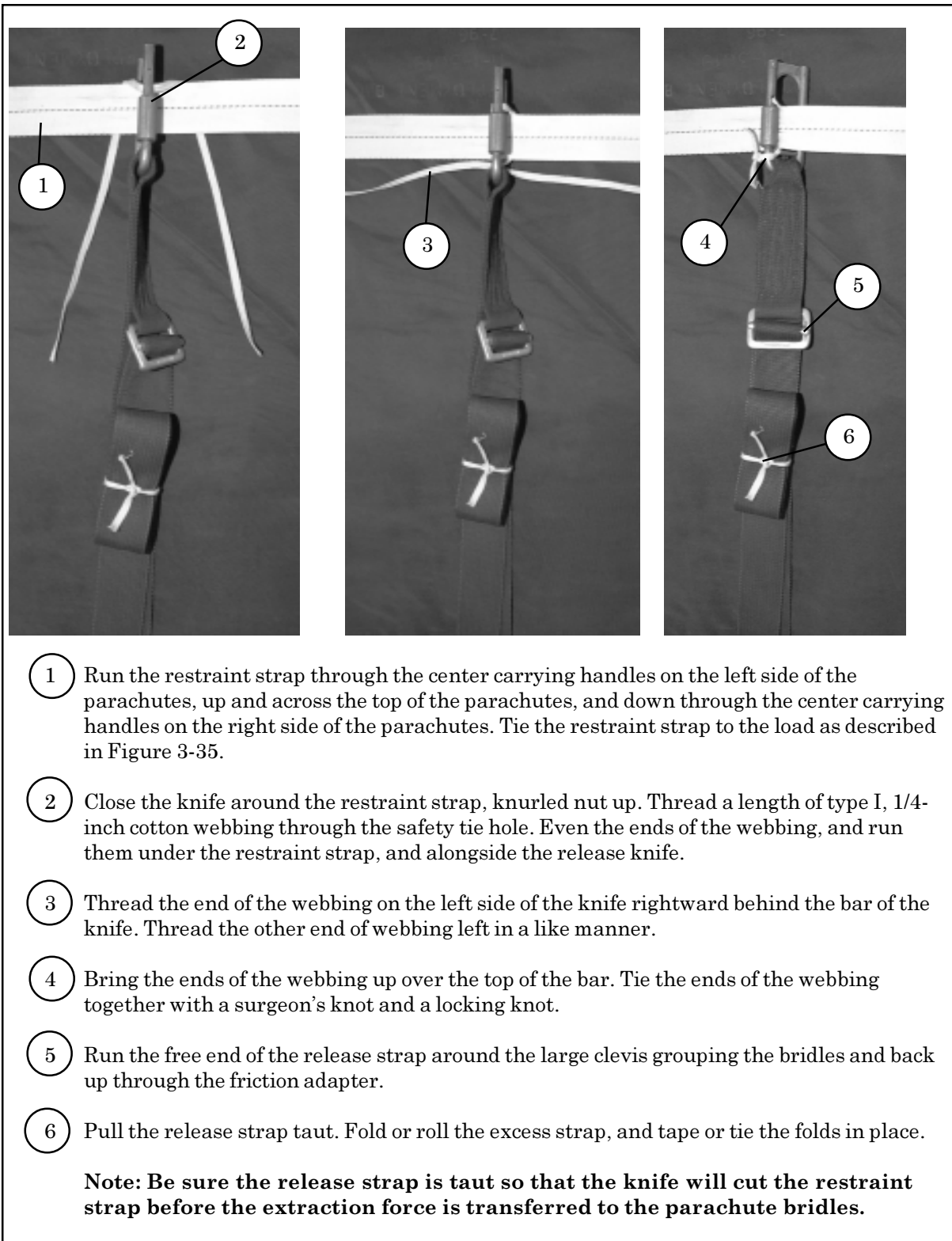
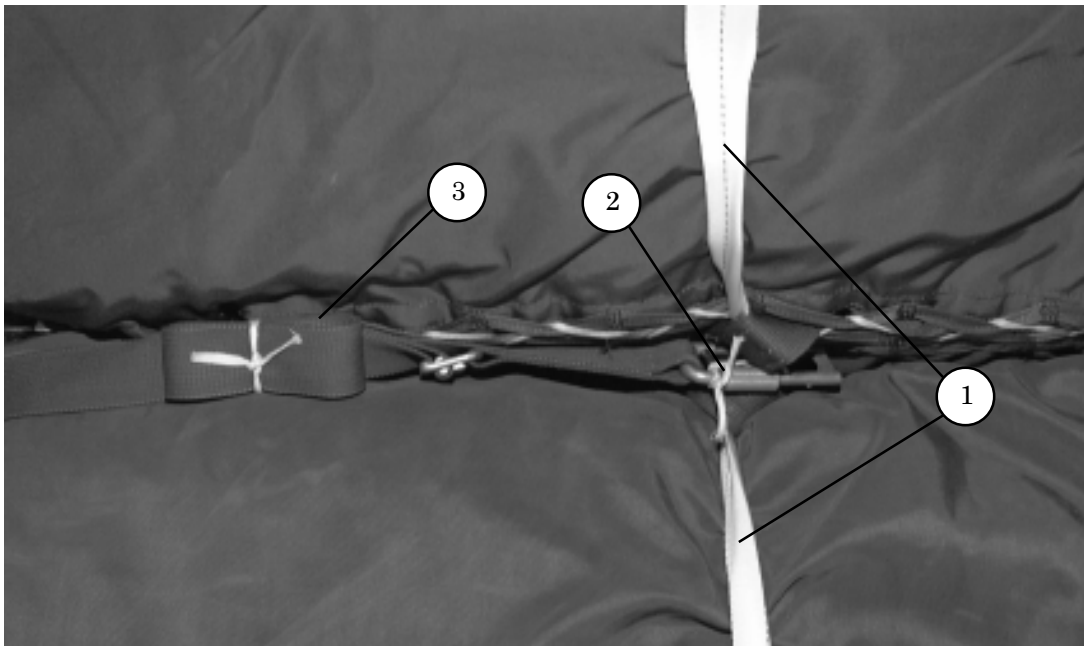


Figure 3-31. Guillotine-knife Parachute Release Strap Installed on Two Stacked Parachutes



- 1 Run the restraint strap up through the outside carrying handle of the left parachute, across the left parachute, down through the inside center carrying handle of the left parachute, up through the inside center carrying handle of the right parachute, across the right parachute, and down through the outside center carrying handle of the right parachute. Tie the restraint strap to the load as described in Figure 3-35.
- 2 Close the knife around the restraint strap with the knurled nut up, between the inside carrying handles. Thread a length of type I, 1/4-inch cotton webbing through the safety tie hole. Even the ends of the webbing, and run them under the restraint strap, and along side the release knife. Thread the end of the webbing on the left of the knife rightward behind the bar of the knife. Thread the other end of webbing leftward in a like manner. Bring the ends of the webbing up over the top of the bar. Tie the ends of the webbing together with a surgeon's knot and locking knot as shown in Figure 3-31. Run the free end of the release strap down through the large clevis grouping the bridles and back up through the friction adapter as described in Figure 3-31.
- 3 Pull the release strap taut. Fold or roll the excess strap, and tape or tie the folds in place as described in Figure 3-31.

Note: Be sure the release strap is taut so that the knife will cut the restraint strap before the extraction force is transferred to the parachute bridles.

Figure 3-32. Guillotine-knife Parachute Release Strap Installed on Two Side-by-Side Parachutes

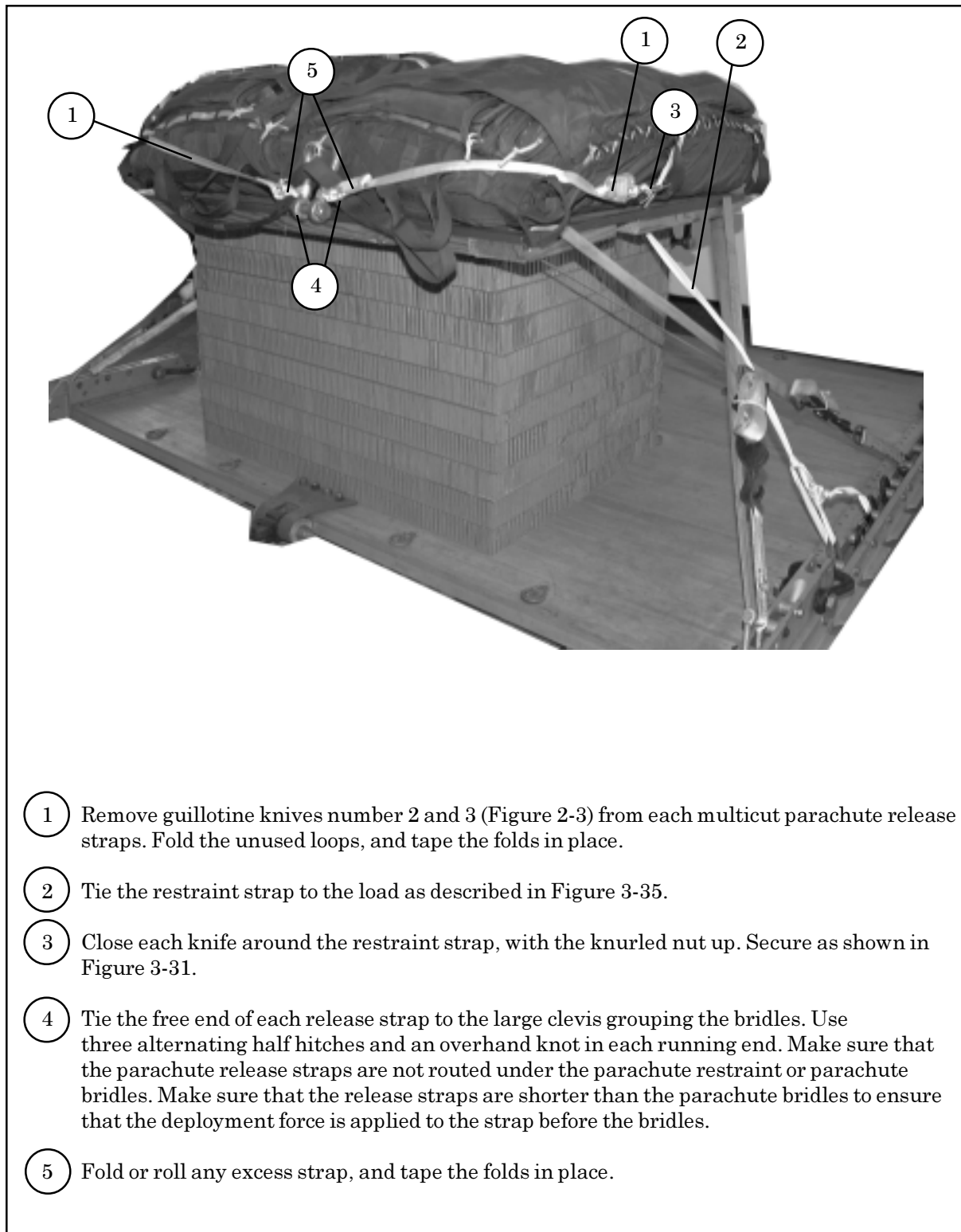
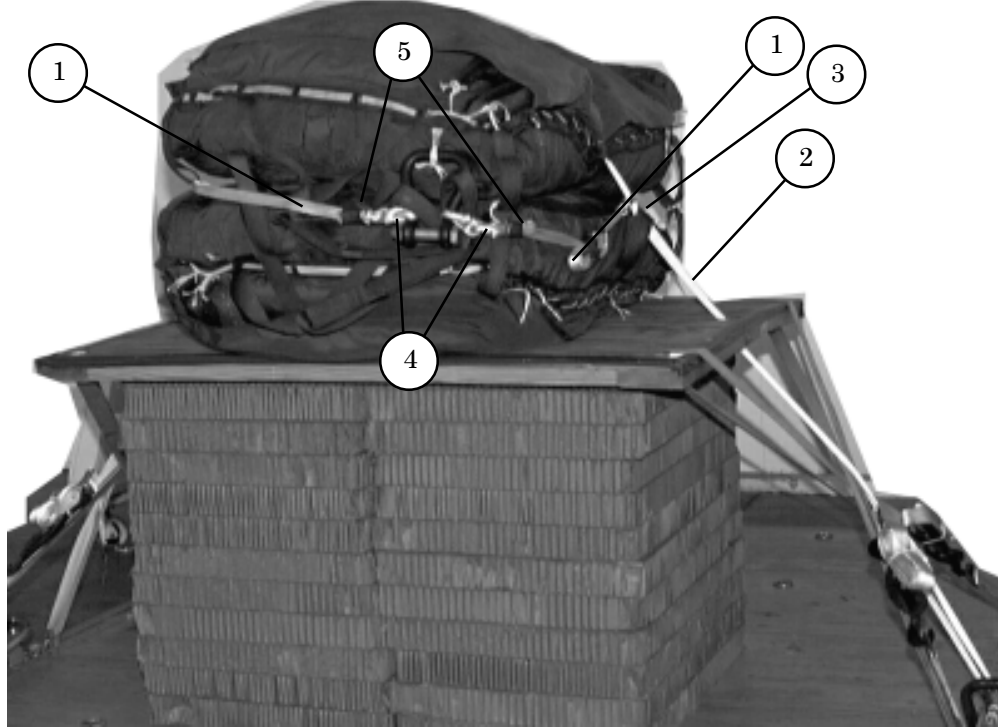
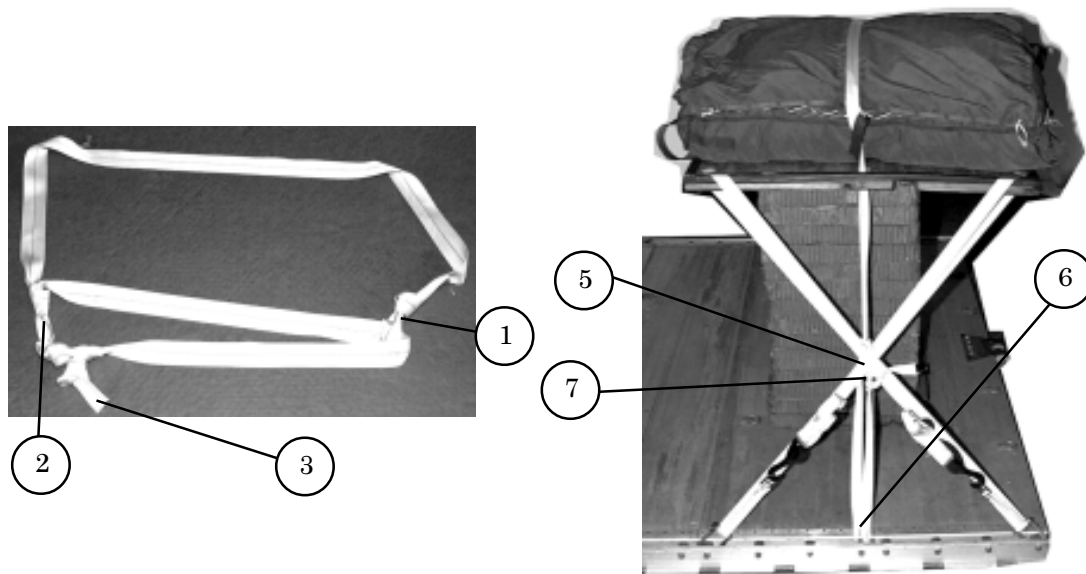


Figure 3-33. Multicut Parachute Release Straps Installed on Two Side-by-Side Parachutes



- 1 Remove guillotine knives number 2 and 3 (Figure 2-3) from each multicut parachute release strap. Fold the unused loops, and tape the folds in place.
- 2 Tie the restraint strap to the load as described in Figure 3-35.
- 3 Close each knife around the restraint strap, with the knurled nut out between the top and bottom carrying handles. Secure as shown in Figure 3-31.
- 4 Tie the free end of each release strap to the large clevis grouping the bridles. Use three alternating half hitches and an overhand knot in each running end. Make sure that the parachute release straps are not routed under the parachute restraint or parachute bridles. Make sure that the release straps are shorter than the parachute bridles to ensure that the deployment force is applied to the strap before the bridles.
- 5 Fold or roll any excess strap, and tape the folds in place.

Figure 3-34. Multicut Parachute Release Straps Installed on Two Stacked Parachutes



When the ends are tied together-

- 1 Tie a loop in one end of the restraint strap with an overhand knot.
- 2 Tie a trucker's hitch a suitable distance from the other end of the restraint strap.
- 3 Run the free end of the restraint strap through the first loop and then back through the trucker's hitch.
- 4 Pull on the free end until the strap is taut, and tie the free end of the strap with three alternating half hitches and with an overhand knot in the running end (not shown).

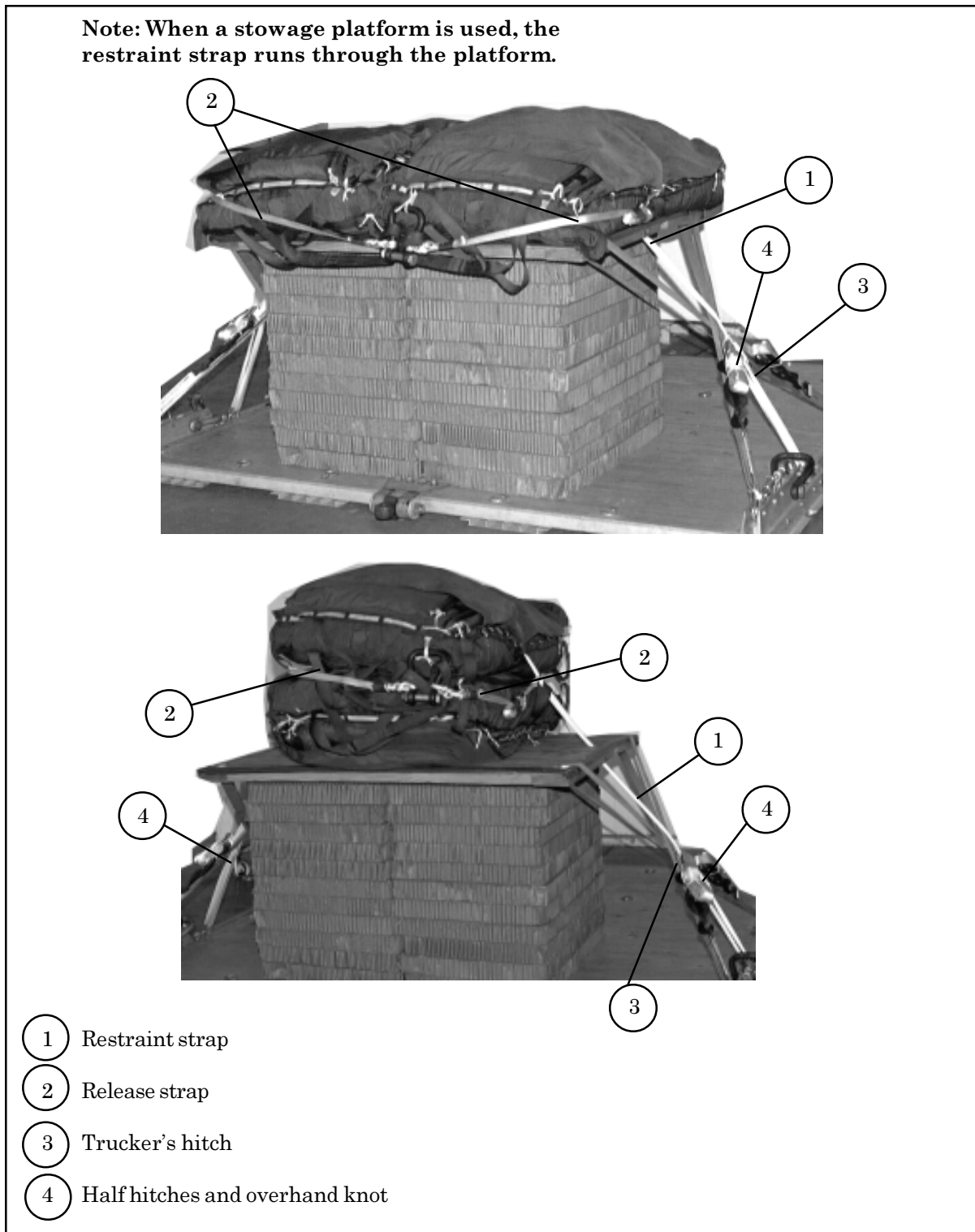
When the ends are tied to the load-

- 5 Tie a trucker's hitch a suitable distance in each end of the restraint strap.
- 6 Run each free end of the strap through or around the indicated point on the load and back up through the trucker's hitch.

Note: The indicated point for tying the parachute restraint strap to the load will be given in the specific rigging manual.

- 7 Pull on both ends of the restraint strap at the same time. When the strap is taut, tie the ends with three alternating half hitches and an overhand knot in the running end.

Figure 3-35. Restraint Strap Tied

**Figure 3-36. Two Parachutes Restrained**